

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

1. (currently amended) Controllable RF-circuit including a controllable mixer (3) having at least one transistor (12), to which an oscillator signal (LO) and an input signal (RF<sub>IN</sub>) are supplied, with the input signal (RF<sub>IN</sub>) comprising a useful signal (RF<sub>use</sub>) and further signals (RF<sub>adj</sub>), and with an output signal (IF) being produced as an output of the mixer (3), characterized in that, wherein a controller is provided, which applies a control signal (U<sub>s</sub>) to the mixer as a function of the signal quality of the output signal (IF), in that, wherein the operating point of the at least one transistor (12) can be set by means of the control signal (U<sub>s</sub>), in which case the intermodulation immunity and/or the noise in the output signal (IF) can be varied as a function of the operating point of the at least one transistor (12) wherein a controllable portion of the overall gain of the RF-circuit is determined by the operating point of the at least one transistor of the mixer.

2. (currently amended) Controllable mixer according to Claim 1, ~~characterized in that~~ wherein a demodulator (8) which is connected downstream from the mixer (3), and an evaluation circuit (7) are provided for assessment of the signal quality of the output signal (IF).

3. (currently amended) Controllable mixer according to Claim 2, ~~characterized in that~~ wherein the evaluation circuit (7) assesses the error rate of a digitally coded signal.

4. (currently amended) Controllable mixer according to ~~one of the preceding claims,~~ Claim 1, wherein a memory (5) is provided for recording initial values, on the basis of which the signal quality can be assessed and optimized.

5. (currently amended) Controllable mixer according to Claim 4, ~~characterized in that~~ wherein the initial values comprise information about a desired minimum signal quality, the symbol rate, the code rate, and/or the modulation method, and optimization routines for reception optimization can be selected as a function of the initial values.

6. (currently amended) Method for controlling a mixer (3) in a receiver having at least one transistor (12) to which an oscillator signal (LO) and an input signal (RF<sub>IN</sub>) are supplied, with the input signal (RF<sub>IN</sub>) comprising a useful signal (RF<sub>use</sub>) and further signals (RF<sub>adj</sub>), and with an output signal (IF) being produced as an output of the mixer (3), ~~characterized in that~~ the method comprises comprising the following steps:

- assessing the signal quality of the output signal (IF);
  - setting the operating point of the at least one transistor (12) as a function of the quality of the output signal (IF);
- ~~and in that~~ wherein the intermodulation immunity and/or the noise of the at least one transistor (12) are set by means of the operating point of the at least one transistor (12)

wherein the method is further comprised by

- setting a controllable portion of the overall gain of the RF-circuit in by setting the operating point of the at least one transistor of the mixer.

7. (currently amended) Method according to Claim 6, ~~characterized in that~~ wherein the error rate of a digitally coded signal is evaluated in order to assess the signal quality.

8. (currently amended) Method according to Claim 6 ~~or 7~~, ~~characterized in that~~ wherein initial values which are stored at the start are selected in order to assess the signal quality and in order to set the operating point of the transistor (12).

9. (currently amended) Method according to Claim 8,  
~~characterized in that~~ wherein different initial values and/or optimization  
routines are selected for different modulation methods, code rates and/or  
symbol rates.